

Education and Training Learning Experience Plan

Prepared by: Jennifer Strawn

Lesson Name: Discovering Nets
Topic of the Lesson: 2D Nets of 3D objects
Age Range/Grade Level/Content Area: 7th grade on level math
Materials Required: Computer (chrome books), document camera, manipulative nets, net cut outs for table groups, graphic organizer, and student assessment (independent practice)
Time Required: All class period (40-45 minutes)
TEKS or objectives, include Bloom's level: 7.(6) Geometry and spatial reasoning. The student compares and classifies two- and three-dimensional figures using geometric vocabulary and properties. The student is expected to: (C) use properties to classify three-dimensional figures, including pyramids, cones, prisms, and cylinders
Introduction/Purpose: Learning how a flat figure can be transformed into a 3D figure and how to identify the 3D shape from a 2D "blueprint"
Learning Activities/Step-by-Step Procedures: <ol style="list-style-type: none">1. Students will have a chrome book already on the correct website and they will have about 2 minutes to explore nets before the lesson.2. I will then walk students through the website on the overhead, pointing out the bases, faces, vertices, and the names of each.3. Next I will use the net manipulates to visually show how the net folds into the 3D shape.4. I will then pass out the independent practice, which has the graphic organizer on the top.5. I will then walk through the graphic organizer with one of the shapes with the students and then they will then complete the rest in their table groups and work on the independent practice.6. When students finish their assessment, they will be able to get back onto their chrome books and practice more by clicking on the "Test your Skills" tab at the top
Guided/Independent Practice: Graphic Organizer and Test your Skills page online (if time permits)
Closure/Summary: The graphic organizer and table manipulative will allow them to visually see the shapes, hear about the shapes (auditory), and physically manipulate the shapes (kinesthetically). I will reinforce how to identify the shapes by the bases and faces and they will begin the practice
Assessment/Evaluation: Work sheet

Relevancy: This lesson is relevant because students will understand what a 3D shape looks like and how to identify if when it is only 2D. This will be necessary for them to understand when they begin learning surface area.

Resource Files Included: http://www.learner.org/interactives/geometry/3d_prisms.html